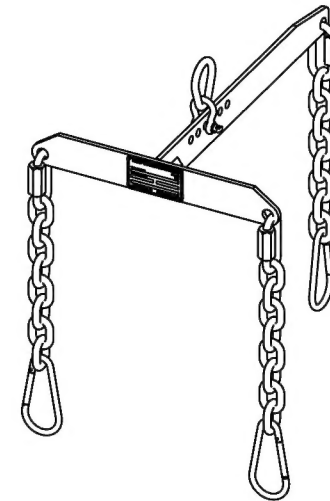
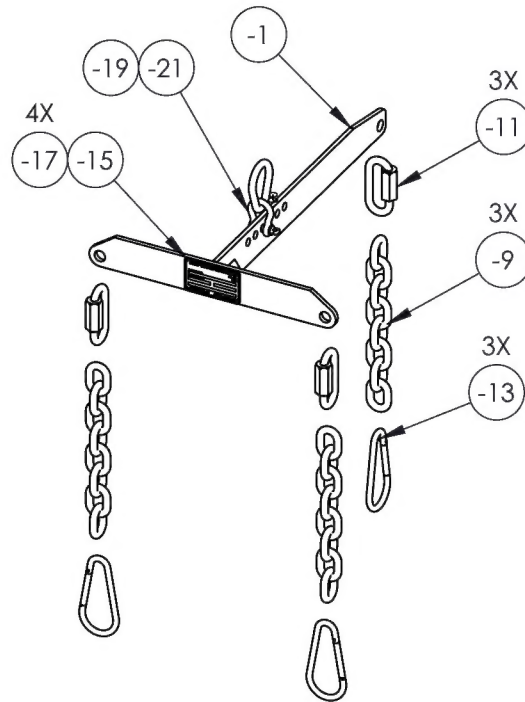


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-1 REDESIGNED SLING ASSEMBLY WAS TUBE IS BEAM -5 WITHOUT SLIDE ADJUSTER WELDMENT. -5 REDESIGNED SLING WAS TUBE WITH SLIDE ADJUSTER IS BEAM WITH 6 POSITION HOLES. -7 CH'D SLING DESIGN ADDED GUSSETS. ADDED -19 AND -21.	1/24/2014	RJC	DW



NOTES:

1. THIS ASSY MAY BE USED COMMERCIALY ON AW109.
2. ENGRAVE -25 T/N, S/N, "MADE IN USA", "SWL 600 LBS".

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-1	1	WELDMENT			2
	1		-3		PLATE	1018	1/4 X 2 X 14-5/8	3
	1		-5		BEAM	1018	1/4 X 2 X 19	4
	2		-7		GUSSET	1018	1/4 X 2-1/8 X 2-1/8	5
		B/O	-9	3	CHAIN	STEEL	3/8 (8 LINKS) MCMASTER-CARR #34245T6	1
		B/O	-11	3	QUICK LINK	STEEL	3/8 MCMASTER-CARR #8947T18	1
		B/O	-13	3	CARABINER	STEEL	3/8 MCMASTER-CARR #3933T16	1
		B/O	-15	1	RED BARN PLACARD	ALUMINUM	RB41009	1
		B/O	-17	4	#2 DRIVE SCREW	COATED STEEL	1/8 MCMASTER-CARR #90081A074	1
		B/O	-19	1	PEAR SHAPED LINK	STEEL	Ø3/8 MCMASTER-CARR #3567T31	1
		B/O	-21	1	SCREW PIN SHACKLE	STEEL	Ø5/16 MCMASTER-CARR #3558T45	1
ASSY #	ASSY -1							



RED BARN MACHINE

TITLE
TOOL ASSY, ENGINE LIFTING

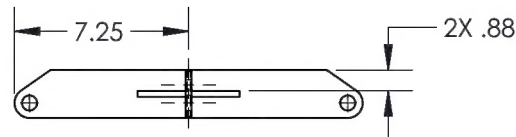
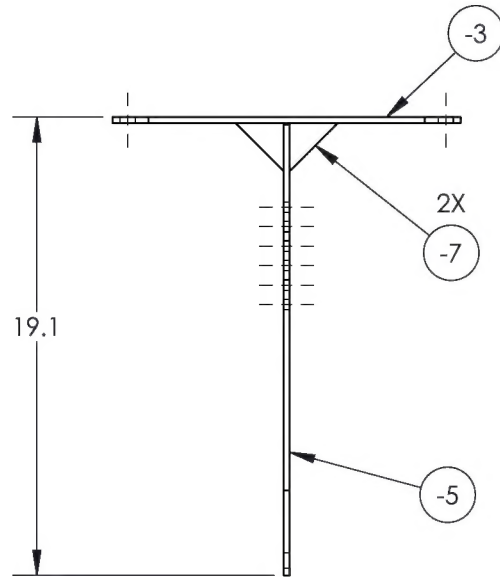
DWG NO. RBW109-3600-30-101

REV
1

MAT'L		DRAWN BY: MARPET	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .005	FRACTIONS ± 1/32	HEAT TREAT	
.XX ± .01	ANGLES ± 5°	FINISH	
.X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		AW109	
SCALE	1:10	DATE	5/23/2013
		SHEET 1 OF 6	

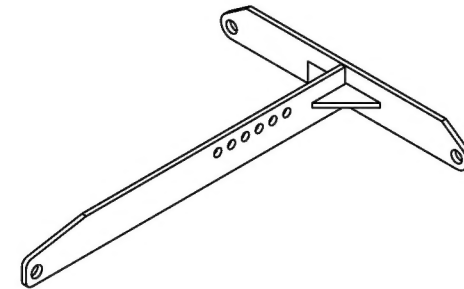
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-1 REDESIGNED SLING ASSEMBLY WAS TUBE IS BEAM -5 WITHOUT SLIDE ADJUSTER WELDMENT.	1/24/2014	RJC	DW



(-1)

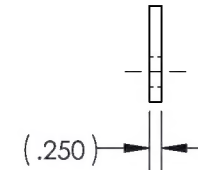
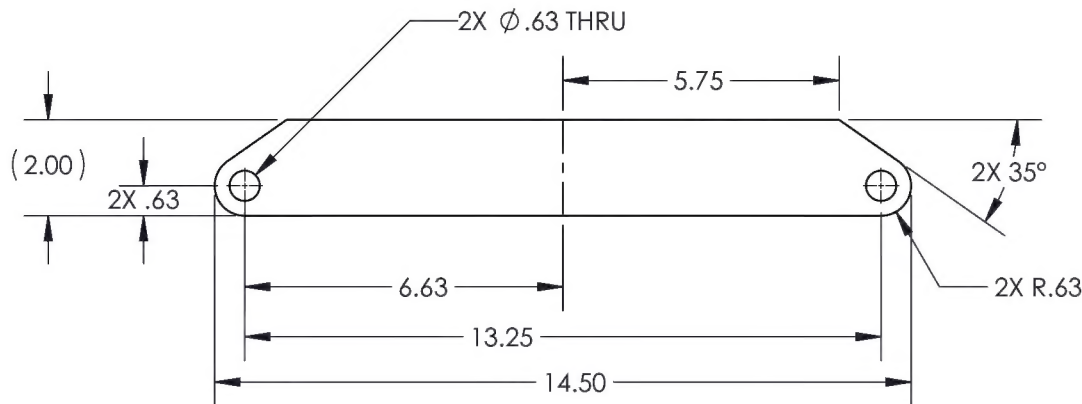
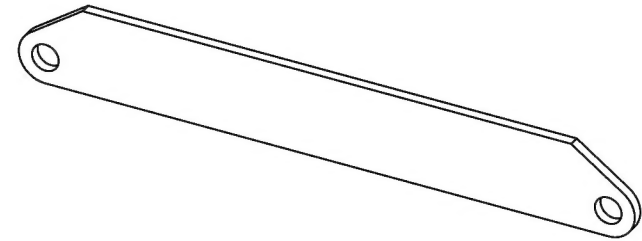
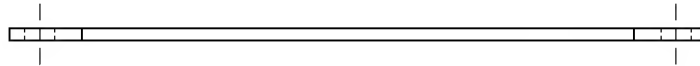
WELDMENT



 RED BARN MACHINE	
TITLE TOOL ASSY, ENGINE LIFTING	
DWG NO. RBW109-3600-30-101-1	REV 1
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	DRAWN BY: MARPET APPROVED <i>D Weil</i> HEAT TREAT FINISH POWDER COAT YELLOW SPEC FED #13538 USED ON MODEL AW109
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:8	DATE 5/23/2013
SHEET 2 OF 6	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



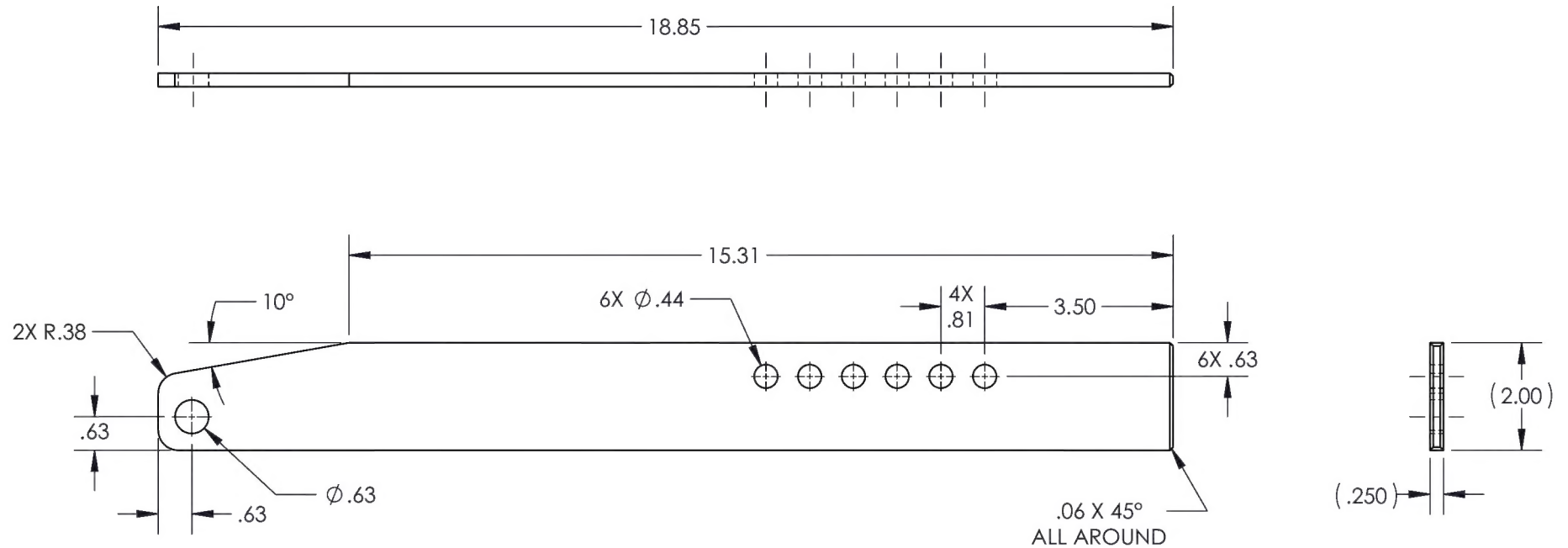
③

PLATE


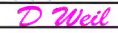
RED BARN MACHINE	
TITLE TOOL ASSY, ENGINE LIFTING	
DWG NO. RBW109-3600-30-101-3	REV 1
MAT'L 1018	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -1 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW109
SCALE 1:4	DATE 5/23/2013
SHEET 3 OF 6	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-5 REDESIGNED SLING WAS TUBE WITH SLIDE ADJUSTER IS BEAM WITH 6 POSITION HOLES.	1/24/2014	RJC	DW

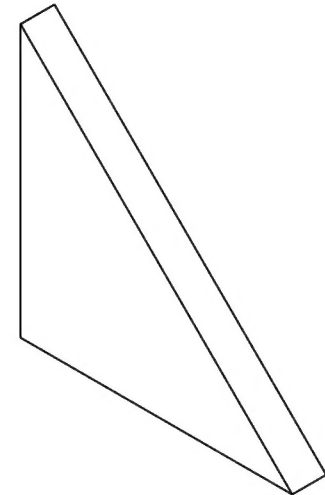
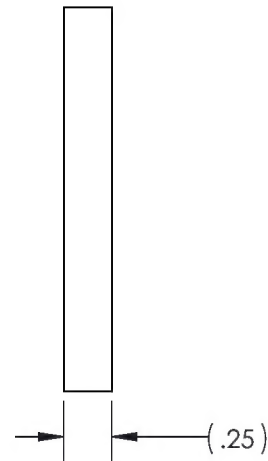
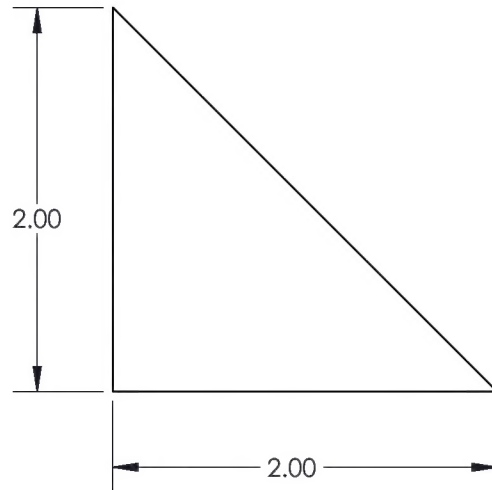


-5
BEAM


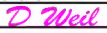
 RED BARN MACHINE	
TITLE TOOL ASSY, ENGINE LIFTING	
DWG NO. RBW109-3600-30-101-5	REV 1
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	APPROVED  HEAT TREAT SEE -1 WELDMENT SPEC USED ON MODEL AW109
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SCALE 1:3 DATE 1/24/2014 SHEET 4 OF 6

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-7 CH'D SLING DESIGN ADDED GUSSETS.	1/24/2014	RJC	DW



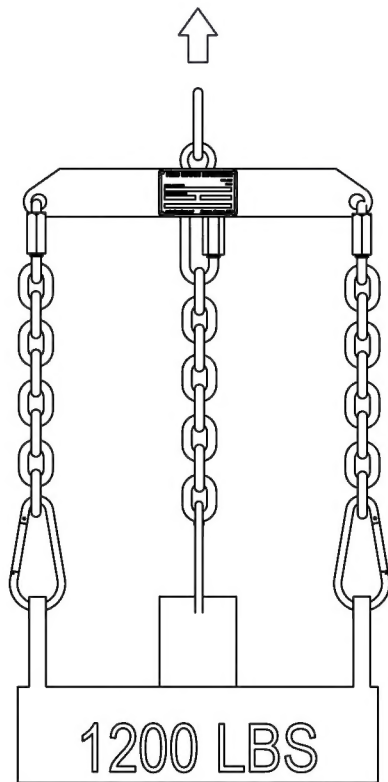
⑦
GUSSET

 RED BARN MACHINE	
TITLE TOOL ASSY, ENGINE SLING	
DWG NO. RBW109-3600-30-101-7	REV 1
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	APPROVED 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	HEAT TREAT SEE -1 WELDMENT SPEC USED ON MODEL AW109
SCALE 1:1	DATE 1/24/2014
SHEET 5 OF 6	

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RED BARN MACHINE
190 S. DANEBO AVE., EUGENE OR. 97402
(541)344-9953; fax (541)344-3863
e-mail; sales@redbarn.net

FIRST ARTICLE WEIGHT TEST



INSPECTION & TESTING PROCEDURES FOR THE
RBW109-3600-30-101, TOOL ASSY, ENGINE LIFTING. THIS
ASSEMBLY IS DESIGNED EXCLUSIVELY FOR HOISTING AND
INSTALLING/REMOVING ENGINE FOR AW109.
THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE.
REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED
OF DAMAGE BEFORE USING!

FIRST ARTICLE WEIGHT TEST


1. AFTER INSPECTION, PLACE SLING ASSEMBLY ON A
OVERHEAD LIFTING DEVICE. ATTACH 3 CONNECTOR HOOKS
TO AN APPROPRIATE TEST WEIGHT OF 1200 LBS.
2. LIFT WEIGHT FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING
FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT SLING, CHECKING FOR
STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR: _____

TESTER: _____

S.N.: _____

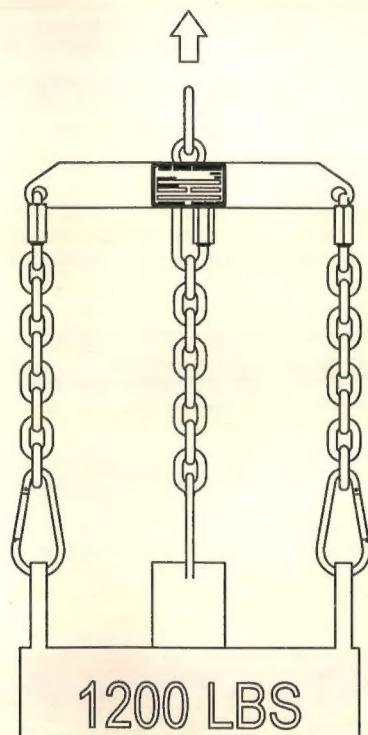
DATE: _____

 RED BARN MACHINE	
TITLE TOOL ASSY, ENGINE LIFTING	
DWG NO. RBW109-3600-30-101	REV 1
DATE 5/23/2013	SHEET 6 OF 6

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FIRST ARTICLE WEIGHT TEST



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3. REMOVE WEIGHT AND RE-INSPECT SLING, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR: DAS 9 9-89 DAS 9 9-89

TESTER: DAS 9 9-89

S.N.: S105726

DATE: 18-03-30

DAS
38
9-89

 RED BARN MACHINE	
TITLE TOOL ASSY, ENGINE LIFTING	
DWG NO. RBW109-3600-30-101	REV 1
DATE 5/23/2013	SHEET 6 OF 6